

Appl. No. 10/064,972  
Amdt. dated March 28, 2006  
Reply to Office action of January 03, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 5 Claim 1 (currently amended): A differential signal transmitter comprising:
- a driver circuit that generates a differential signal in response to inputted data, a voltage amplitude of the differential signal being controlled by a bias; and
- 10 a control circuit comprising a first input for receiving a first control indicator, the control circuit ~~being capable of outputting the bias at different levels~~ selecting a plurality of current sources according to the first control indicator and outputting a sum of currents provided by selected current sources as the bias.
- 15 Claim 2 (original): The differential signal transmitter of claim 1 wherein the first control indicator is a single bit.
- 20 Claim 3 (original): The differential signal transmitter of claim 1 wherein the control circuit is capable of outputting the bias at different current levels.
- 25 Claim 4 (original): The differential signal transmitter of claim 3 wherein when the control circuit outputs the bias at a first current level, the driver circuit generates a Low Voltage Differential Signaling (LVDS) differential signal in response to the inputted data.
- Claim 5 (currently amended): The differential signal transmitter of claim 3 wherein when

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the control circuit outputs ~~[[the]]~~ a first current level as ~~[[a]]~~ the bias for the driver circuit, the driver circuit generates a Mini-LVDS differential signal in response to the inputted data.

- 5 Claim 6 (currently amended): The differential signal transmitter of claim 3 wherein when the control circuit outputs ~~[[the]]~~ a first current level as ~~[[a]]~~ the bias for the driver circuit, the driver circuit generates a Reduced Swing Differential Signaling differential signal in response to the inputted data.

- 10 Claim 7 (cancelled)

Claim 8 (original): The differential signal transmitter of claim 1 wherein the control circuit further comprises a second input for receiving a second control indicator.

- 15 Claim 9 (currently amended): A method of transmitting a differential signal from a transmitter, the transmitter comprising a driver circuit that generates the differential signal in response to inputted data and a control circuit, ~~[[an]]~~ a voltage amplitude of the differential signal being controlled by an electrical bias, the method comprising:

- 20 receiving a control indicator ~~from a first~~ at an input of the control circuit;

~~the control circuit~~ generating the electrical bias from the control circuit as a sum of currents provided by a plurality of current sources selected according to the control indicator ~~at different levels according to the first control indicator;~~ and

- 25 generating the differential signal at ~~[[a]]~~ the voltage amplitude determined by the electrical bias.

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Claim 10 (currently amended): The method of claim 9 ~~further comprises~~ wherein the driver circuit ~~generating~~ generates a Low Voltage Differential Signaling (LVDS) differential signal in response to the inputted data when the control circuit outputs the electrical bias at a first predetermined level.

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Claim 11 (currently amended): The method of claim 9 ~~further comprises~~ wherein the driver circuit ~~generating~~ generates a Mini-LVDS differential signal in response to the inputted data when the control circuit outputs the electrical bias at a second predetermined level.

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Claim 12 (currently amended): The method of claim 9 ~~further comprises~~ wherein the driver circuit ~~generating~~ generates a Reduced Swing Differential Signaling differential signal in response to the inputted data when the control circuit outputs the electrical bias at a third predetermined level.

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